

ABSTRACT OF THE DISCLOSURE

A composition C-4 substitute is provided, the substitute include 2,4,6,8,10,12-hexanitro-2,4,6,8,10,12-hexaazatetracyclo[5.5.0.0^{5,9}.0^{3,11}]-dodecane (CL-20), optionally one or more nitramines other than CL-20, and silicone fluid. Also provided is an additive composition including CL-20 and bis(dinitropropyl)acetal and bis(dinitropropyl)formal (BDNPA/F). The additive composition is preferably combined with composition C-4.

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